Technical Specifications CSC923X

CINEMA SERIES

APPLICATION

- For the largest cinema screen channel applications

PRODUCT INFORMATION

The CSC923X represents a major advancement in cinema screen channel speaker design. Incorporating many new EAW engineering breakthroughs, the CSC923X is designed to provide optimal coverage in "stadium" seating auditoriums, where front-to-back coverage provides a difficult challenge for even the best conventional systems.

The three-way CSC923X features a multicomponent modular design which allows quick installation, with little or no assembly required on site.

The mid-range and high frequency horns feature an unusual asymmetrical flare design, which provides a narrow pattern at the rear of the room, and a wider pattern at the front of the room. This design minimizes energy radiated at the side walls, while concentrating sound in the seating area. The high frequency horn is coupled to a 2-inch exit driver, and also features a controlled collapsing pattern at the very highest frequencies, which compensates for the screen's effect of widening the pattern, thus resulting in a constant pattern in the seating area.

The single 10" mid-range cone driver is housed in its own subenclosure and is coupled to EAW's patented "VA^4" phase plug. The unique radial design of the VA^4 phase plug significantly reduces throat distortion and frequency "time smear", resulting in noticeably clearer, more natural sounding dialog.

The dual low frequency sections incorporate EAW's "push-pull" driver arrangement. Each driver pair is out of phase relative to each other both physically and electrically, yet their product is acoustically in phase, substantially lowering mechanically induced distortion.

DESCRIPTIVE DATA

LF Subsystem	4x15" Vented, Push Pull Configuration
MF Subsystem	1x10-in Horn-Loaded Cone, Radial Phase Plug
HF Subsystem	1x2-in Exit/75mm Voice Coil Compression Driver on 2 Axis Asymmetrical Horn
Configuration	3-way
Powering Mode	Tri-amplified
Enclosure Materials	Baltic Birch Plywood
Finish	Wear-resistant Textured Black Paint
Connectors	2x2-Terminal Barrier Strip
Dimensions	
Height	90.5 in 2298.7 mm
Width	32.0 in 812.8 mm
Depth	22.5 in 571.5 mm
Weights	
Net	309.0 lb 140.16 kg
Shipping	329.0 lb 149.04 kg

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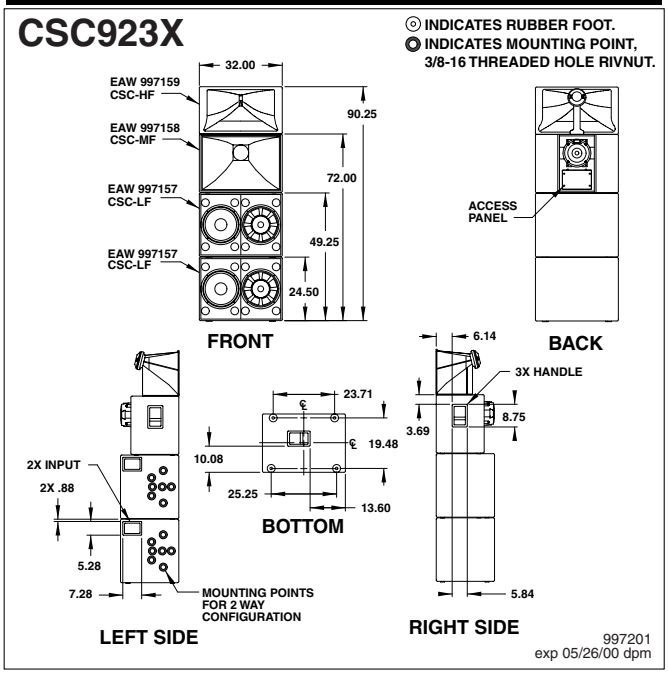
DIMENSIONAL DRAWING



NOMINAL DATA

Frequency Response (1 W @1m)	
±3 dB	35 Hz to 18 kHz
Sensitivity (dB SPL, 1 Watt @ 1m)	
LF	103
MF/HF	108
Impedance (Ohms)	
LF	2 x 4 ohms
MF/HF	8
Power Handling, (AES Standard, Watts)	
LF	2000
MF/HF	350
Calculated Maximum Output (dB SPL)	
LF Peak	142
MF/HF Peak	139.4
LF Long Term	136
MF/HF Long Term	133.4
Recommended High-Pass Frequency	
24 dB/Octave	50Hz

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